

REMARKS

Claims 1-5 and 7 are now in this application. Claims 1- 5 and 7 are rejected. Claims 1, 2 and 3 are amended herein to clarify the subject matter of the invention. Claims 4 and 5 are canceled. Claims 1, 2, 3, ~~4~~ and 7 are remained.



I submit herewith a substitute specification. Also accompanying this amendment is a reproduction of the original specification with markings indicating the amendments effected in the substitute specification.

A replacement abstract is provided herein on a separate page. It is submitted that the replacement abstract is in full. No new matter is added.

I herein traverse and respectfully request reconsideration of the rejections of the claims cited in the above-referenced Office Action.

Claims 1 - 3 are rejected as obvious over the Hujar et al. reference in view of Olajide, Jr. under 35 U.S.C. 103(a). I herein respectfully traverse the rejections. For a rejection under 35 U.S.C. 103(a) to be sustained, the differences between the features of the combined references and the present invention must be obvious to one skilled in the art.

Claim 1 recites a cloth cap body; a sunshade cover removably and rotatably connected to said cap body by means for connecting, characterized in that the sunshade cover has a cooling material, and the cooling materials is a water-absorbing material as a



fiber obtained by processing a polymer that contains the sodium salt of polyacrylic acid as a major component; and the connecting means has a male piece and a female piece respectively on the cap body and the sunshade cover, wherein the male piece has a projection portion rotatably and removably attached to a recess of the female portion such that when the shading cover is rotated in the stored position inside the cap body, one of a front and rear surface of the cover is flush with the head, and when the cover is rotated out of the cap body, the back part of the wearer's head and nape is cooled. The Examiner cites the Olajide, Jr. reference for teaching the connecting means having an axle. However, the Olajide, Jr. reference is directed to detachable snap. Thus, it is impossible to rotate the sunshade cover; store into the cloth cap when not in use; and cool down the back part of the head when the sunshade cover is stored into the cap body. Therefore, the combination cited by the Examiner cannot render obvious the subject matter of claim 1 because it fails to teach or suggest all the claimed features providing the solution to the problem of showing the information.

Claim 2 recites that the connecting means is a stopper pin as the axle thereof so as to removably and pivotably connect the sunshade cover to the cap body such that when the shading cover is rotated in the stored position inside the cap body, one of a front and rear surface of the cover is flush with the head, and when the cover is rotated out of the cap body, the back part of the wearer's head and nape is cooled.

Dependent claim 2 is patentable based on the subject matter cited therein in

addition to the subject matter of claim 1. Also I amended as the Examiner suggested in the Advisory Action.

Claim 3 recites a cloth cap body; a sunshade cover removably and rotatably connected to said cap body by means for connecting, characterized in that the sunshade cover has a cooling material, and the connecting means has a both-sided hook and a loop respectively on the cap body and the sunshade cover such that when the shading cover is rotated in the stored position inside the cap body, one of a front and rear surface of the cover is flush with the head, and when the cover is rotated out of the cap body, the back part of the wearer's head and nape is cooled.

As such, the cited combination of references cannot render obvious claim 3 because it also fails to teach or suggest all the claimed features providing the solution to the problem of showing the information as described in claim 1. Also I amended as the Examiner suggested in the Advisory Action.

Thus, it is respectfully submitted that the rejected claims are not obvious in view of the cited references for the reason stated above. Reconsideration of the rejections of claims 1 - 3 and their allowance are respectfully requested.

Claims 4 and 5 are rejected as obvious over the Hujar et al. reference in view of Olajide, Jr. and further in view of Benedict under 35 U.S.C. 103(a). I herein respectfully traverse the rejections. For a rejection under 35 U.S.C. 103(a) to be sustained, the differences between the features of the combined references and the present invention

must be obvious to one skilled in the art.

Claim 4 and 5 are canceled. Thus, it is respectfully submitted that the rejected claims are not obvious in view of the cited references for the reason stated above.

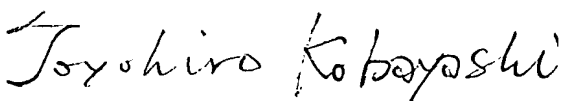
Claim 7 is rejected as obvious over the Snow reference in view of Benedict under 35 U.S.C. 103(a). I herein respectfully traverse the rejections. For a rejection under 35 U.S.C. 103(a) to be sustained, the differences between the features of the combined references and the present invention must be obvious to one skilled in the art.

Claim 7 is a dependent claim of 1, 3 or 4 and recites that the cloth cap body is formed in a headband with elasticity. Claim 4 is canceled. As described above, the dependent claim 7 is patentable based on the subject matter cited therein in addition to the subject matter of claims 1 or 3.

Thus, it is respectfully submitted that the rejected claims are not obvious in view of the cited references for the reason stated above. Reconsideration of the rejections of claim 7 and their allowance are respectfully requested.

In light of the foregoing, the application is now believed to be in proper form for allowance of all claims and notice to that effect is earnestly solicited.

Respectfully submitted,


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Enc: List of Remained Claims; Replacement of sheets of Abstract; Substitute Specification; Marked reproduction of original specification.

[HAT WITH SHADING COVER] CAP

BACKGROUND OF THE INVENTION

This invention relates to a cap, including a hat, hood and the like, with a
5 sunshade cover [, a hat with a sunshade cover, and a hood with a sunshade cover].

When people are out in the fields under strong sunlight for a long time, they not only wear a cap on the head but also put a wet towel between the head and the cap in order to avoid having the midsummer sunstroke and having bad sunburn on the back of the neck. However the wet towel gets dry quickly under the strong sunlight and also
10 may be displaced when a strong wind blows. Then, Japanese Utility Model Application No. 61-156545 discloses a "Head Cooling Cap". This cap is equipped with a rosin material that absorbs water very well therein and cools the head of the cap wearer by absorbing the heat of a space surrounding the cap. This cap, however, cannot cool the back of the head and neck and protect from strong sunlight. Since it also has to be
15 entirely dipped into water before it is worn and the additional water touches the sensitive forehead and upper portion of the face, such a cap is uncomfortable.

SUMMARY OF THE INVENTION

Accordingly, it is an object of the invention to provide a [hat] cap with a shading
20 cover which [can protect the back part of the head and nape of a person under a scorching sun from the direct rays and the heat of the sun and having a cold insulator incorporated therein to keep cool the head and nape of the wearer for a long time.

[A hood structure having a hair band and a shading cover integrated together and each provided with a cold insulator for doubly cooling the head and nape of the wearer

for a long time]

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a vertical cross section of a cap with a sunshade cover when in use that
5 the sunshade cover is hanging down from a cap body showing a first embodiment of
the present invention;

Fig. 2 is a cross sectional view showing the way in which the sunshade cover is
stored within the cap body;

Fig. 3 illustrates how to use the cap of the present invention;

10 Fig. 4 is a cross sectional view of a cup formed in the shape of a hat with a
sunshade cover showing another feature of the first embodiment of the present
invention;

Fig. 5 is an explanation view of a connector 3 that connects removably and
rotatably the sunshade cover to the cap body;

15 Fig. 6 is an explanation view of a hood with a sunshade cover showing a second
embodiment of the present invention;

Fig. 7 illustrates the back of the head of a wearer of the hood showing the second
embodiment of the present invention; and

20 Fig. 8 is an explanation view showing the way in which the hood with the
sunshade cover is worn over the cap.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings. Figs. 1 and 2 are vertical cross sections of a cap
according to the invention. The cap comprises a cap body 2 and a sunshade cover 1.

The cap body 2 has a visor 8. As shown in Fig. 1, the sunshade cover 1 is hanging down from the cap body 2. In contrast, the cover 1 is kept inside the cap body 2 in Fig. 2.

As may be better seen from Fig. 3(a), the cap body 2 is provided with two
5 opposed burred sides 5 and 5' of a hook and loop as both-sided adhesive at the inside of its circumferential edge. Similarly, the sunshade cover 1 is provided with two opposed looped sides 4 and 7 of a hook and loop as a both-sided adhesive at its outside. As shown in Fig. 3(a), the looped side 4 of the both-sided adhesive of the sunshade cover 1 can be joined with the burred side 5 of the both-sided adhesive of
10 the cap body 2, and the looped side 7 of the both-sided adhesive of the cover 1 can be joined with the burred side 5' of the both-sided adhesive of the cap body 2. The two opposed sides of the sunshade cover 1 can be thus fastened to the cap body 2. In addition, as shown in Figs. 1, 2 and 3(a) to 3(c), the sunshade cover 1 can be also connected to the inside of the cap body 2 by means of a middle connector 3 at its
15 middle portion. This middle connector 3 is passing through openings (not shown) made in the cover 1 and the cap body 2 (Fig. 5).

The sunshade cover 1 has an inner space that contains a relatively small bag of fabric, or cooling member 6 (Figs. 1 and 2), containing a material that absorbs water very well and stitched into the inner space in such a manner that the small bag is
20 accommodated flat in the inner space. And, as such a water-absorbing material to be put into the small bag, one can effectively use, for example, fibers obtained by processing a polymer that contains the sodium salt of polyacrylic acid as a major component.

This cap of the invention can be very effectively used to avoid sunstroke when

one is exposed to direct or strong sunlight for a long time. In use, one first dips the sunshade cover 1, only the sunshade cover 1, into water, so that the cooling member 6 thus absorbs the water very well. Then, he or she puts the cap on his or her head with its sunshade cover 1 hanging down from the cap body 2 as shown in Figs. 1 and 3(a).

5 The wearer of the cap is now ready to carry out some activity or sit or stand still for a long time under strong sunlight, because the cooling member 6 absorbs the heat of the space surrounding this member 6 as the water absorbed by the above-mentioned water-absorbing material evaporates under strong sunlight. The sunshade cover 1 thus cools the head of the cap wearer under strong sunlight. To be exact, the sunshade
10 cover 1 cools both the lower part of the back of the head and the back of the neck when that cover 1 is hung down from the cap body 2.

In addition, one can also wear this cap of the invention in order to cool the top of his head under strong sunlight, because the sunshade cover 1 can be shifted from the hanging position of Figs. 3 and 3(a) to an inner position of Figs. 2 and 3(c) in the cap
15 body 2. To shift the cover 1 to this inner position, one first pulls apart the looped fastener element 4 and the burred fastener element 5 and also pulls apart the looped fastener element 7 and the burred fastener element 5'. Then, one turns the sunshade cover 1 in either one of two opposite directions, as shown in Fig. 3(b). In Fig. 3(b), the cover 1 is being turned in a counterclockwise direction 9 when viewed from under the
20 cap. And this turning is done for an angle of 180 degrees, and then this time the looped fastener element 7 is joined with the burred fastener element 5 and the looped fastener element 4 is joined with the burred fastener element 5', as illustrated in Fig. 3(c). The sunshade cover 1 thus can be shifted to the inner position in the cap body 2. In this position the sunshade cover 1 can cool both the upper part of the back of the head and

the top of the head, as can be seen from Fig. 2.

The reason why the cover 1 can be turned in such a manner is because of the construction of the middle connector 3 with a stopper pin 3a. Detailed construction of this connector 3 is shown in Fig. 5.

5 As illustrated in Fig. 5, this connector 3 comprises a male piece 31 passing through the thickness of the sunshade cover 1 and a female piece 32 passing through the thickness of the cap body 2. The male piece 31 has a projecting portion 31A in the shape of an inverted trapezoid, and the female piece 32 has a complementary recess 32A into which the projecting portion 31A is rotatably fit. Thus the male piece 31 and
10 female piece 32 is mated with each other such that the male piece 31 can be rotated. Thus the sunshade cover 1 can be turned or shifted to the inner position of Fig. 2 by rotating the male piece 31.

In addition, the male piece 31 can be separated from the female piece 32 to detach the sunshade cover 1 from the cap body 2. If it is detached from the cap body 2,
15 one can wear this cap as a usual cap.

It will be appreciated that this cap of the invention is very suitable for, for example, a spectator at a baseball or soccer game played under a burning sun in the height of summer. The wearer of this cap can feel pleasantly cool at the head under such a condition. If a design or pattern is printed on the sunshade cover 1, it is usually printed
20 on the outside of the cover 1. This cover 1 contacts the head of the cap wearer at its inside either when the cap is worn with the cover 1 in the hanging position of Fig. 1 or when it is worn with the cover 1 in the inner position of Fig. 2. Therefore the outside of the cover 1, or the printed side thereof, is not polluted by the cap wearer's hair.

The cap of figs. 1 to 3(a) is one aspect of a first embodiment of the invention. Fig.

4 depicts another aspect of the first embodiment of the invention. That is, Fig. 4 depicts a hat with a sunshade cover 1. In Fig. 4 the same reference numerals as those of the cap are used to designate parts similar to those of the cap. As with the cap, the sunshade cover 1 of the hat of Fig. 4 contains an inner cooling member 6. The sunshade cover 1 is removably connected to a cap body 2 in a similar manner to the sunshade cover 1 of the cap.

Figs. 6, 7 and 8 illustrate a second embodiment of the invention. That is, these Figures show a hood with a sunshade cover. Reference numerals 61 and 64 designate the front and back, respectively, of a headband of elastic material. The front 61 of the headband is secured to a sunshade cover 63 at 62, as by stitching. A cooling member 65 is provided in the back 64 of the headband, and is in such a position as to cool the back of the head 67 of a hood wearer. Also, another cooling member 66 is provided in the sunshade cover 63, and is in such a position as to cool chiefly the back 68 of the neck. The same water-absorbing material as in the cap of Fig. 1 may be put into the cooling members 65 and 66. If desired, as shown in Fig. 8, one can wear the hood of Figs. 6 and 7 over a usual cap. If one wears the hood in such a manner, not [Only] only does the sunshade cover 63 cool the head and the back of the neck of the wearer, but the head serves to secure the cap to the head and hence prevents the cap from being blown off by a strong wind.

As set forth above, by wearing the [hat] cap of this invention, it prevents the back of the head or a neck from a direct rays when a user is playing in an amusement park, watching sport games in the soccer stadium and baseball field under blazing heat. In addition, If only a shade cover part is soaked in water and worn, since the cooking material will hold moisture so much, by evaporation heat's occurring with the heat of

direct rays, and taking heat from the circumference, a wear part can be made into low temperature and can be made cool. Accordingly, It can be used for watching the sport games etc., blazing heat comfortably for a long time and so on. Furthermore, if the shade cover part is contained inside the main part of a hat, the cooling material is
5 located in an upper head and an upper head can be cooled efficiently. Also since it can remove, the shade cover part can be removed and can be cleaned.

[A] The hood structure including a hair band and a shading cover is provided with a cold insulator for doubly cooling the head and nape of the wearer. In addition, It can avoid blowing away, even if a strong wind blows when carrying out sports, such as a
10 triathlon under blazing heat, and fishing in the sea, since it is fixable to a head firmly by wearing a hair band over on a hat.